



US 20170032740A1

(19) **United States**(12) **Patent Application Publication**
KO et al.(10) **Pub. No.: US 2017/0032740 A1**(43) **Pub. Date: Feb. 2, 2017**(54) **SOURCE DRIVER INCLUDING OUTPUT
BUFFER, DISPLAY DRIVING CIRCUIT, AND
OPERATING METHOD OF SOURCE DRIVER**(71) Applicant: **SAMSUNG ELECTRONICS CO.,
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Jul. 30, 2015 (KR) 10-2015-0108147

Publication Classification(51) **Int. Cl.**
G09G 3/3258 (2006.01)
G09G 3/36 (2006.01)
H03F 3/45 (2006.01)
(52) **U.S. Cl.**
CPC **G09G 3/3258** (2013.01); **H03F 3/45273**
(2013.01); **G09G 3/3648** (2013.01); **H03F**
2203/45112 (2013.01); **G09G 2310/08**
(2013.01); **G09G 2330/021** (2013.01)(57) **ABSTRACT**

A source driver includes a buffer device including a plurality of buffers corresponding to a plurality of data lines, each of the plurality of buffers respectively including an amplifier configured to amplify an input signal and an output driver configured to output a driving signal to a corresponding data line among the plurality of data lines; and a switch device including a charge sharing switch configured to electrically connect the plurality of data lines to one another during a charge sharing operation, each of the amplifiers including a first current mirror having a reference current path including a first node and an output current path including a second node, and the first node of the reference current path and the second node of the output current path are electrically connected to each other during the charge sharing operation.

